

Pending Claims

Claims 1-52 (Cancelled)

Claim 53 (Previously Presented): A method for synthesizing cDNA by enhancing the processivity of a reverse transcriptase which comprises transcribing RNA with a reverse transcriptase in the presence of a single-strand binding protein under conditions to produce one or more cDNAs longer than about 600 nucleotides.

Claim 54 (Original): The method of claim 53, wherein the single-strand binding protein is present at a concentration of at least 0.0061 mM.

Claim 55 (Original): The method of claim 53, wherein the single-strand binding protein is present at a concentration of at least 0.015 mM.

Claim 56 (Original): The method of claim 53, wherein the single-strand binding protein comprises T4 gp32.

Claim 57 (Original): The method of claim 53, wherein the single-strand binding protein comprises the single strand binding protein of *Escherichia coli*.

Claim 58 (Previously Presented): The method of claim 53, wherein the cDNA synthesis is carried out at a temperature of no more than 42 degrees Celsius.

Claims 59-66 (Cancelled)

Claim 67 (Previously Presented): The method of claim 80, wherein the primer is present at a concentration of no greater than 0.02 μ M.

Claim 68 (Previously Presented): The method of claim 80, wherein the mRNA molecules are reverse transcribed from no more than 100 ng of total RNA.

Claim 69 (Previously Presented): The method of claim 80, wherein the mRNA molecules are reverse transcribed from no more than 10 ng of total RNA.

Claim 70 (Previously Presented): The method of claim 80, wherein the primer comprises a polythymidine sequence.

Claim 71 (Previously Presented): The method of claim 80, wherein the primer comprises random hexamers.

Claim 72 (Previously Presented): The method of claim 80, wherein the primer comprises a promoter sequence for an RNA polymerase.

Claim 73 (Previously Presented): The method of claim 72, wherein the promoter sequence is from bacteriophage T7.

Claim 74 (Previously Presented): The method of claim 80, wherein the single-strand binding protein is present at a concentration of at least 0.0061 mM.

Claim 75 (Previously Presented): The method of claim 80, wherein the single-strand binding protein is present at a concentration of at least 0.015 mM.

Claim 76 (Previously Presented): The method of claim 80, wherein the single-strand binding protein comprises T4 gp32.

Claim 77 (Previously Presented): The method of claim 80, wherein the single-strand binding protein comprises the single strand binding protein of *Escherichia coli*.

Claim 78 (Previously Presented): The method of claim 80, wherein the cDNA synthesis is carried out at a temperature of no more than 42 degrees Celsius.

Claim 79 (Previously Presented): The method of claim 80, wherein said mRNA molecule belongs to a complex population of mRNA molecules comprising mRNA molecules longer than 600 nucleotides in length.

Claim 80 (Previously Presented): The method of claim 53, wherein transcribing RNA comprises incubating said RNA with a primer that hybridizes to one or more mRNA molecules among said RNA to reverse transcribe any mRNA present and produce one or more cDNAs longer than 600 nucleotides and complementary to the transcribed mRNA.